

This RP applies only to knuckle couplers on large scale (#1 to Fn3) rolling stock running on #1 (45mm) gauge track.

## Coupler Height

Couplers should be mounted at the height specified in Standard S-2:

- For narrow gauge rolling stock, use the Fn3 scale height (1.125"/28.5 mm).
- For standard gauge rolling stock, use the #1 scale height (1.063"/27 mm).

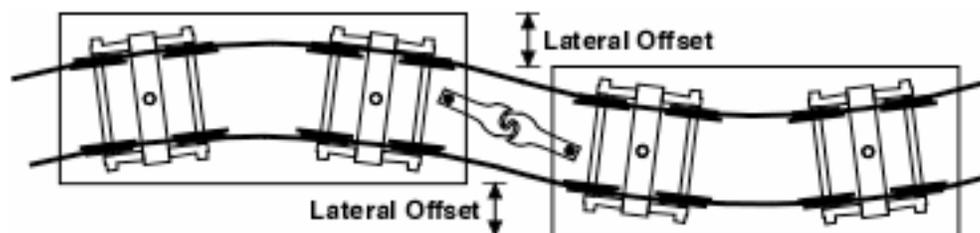
## Coupling

Rolling stock should couple when pushed together with minimal force on straight track when the knuckle of one or both couplers is open. *Note: Kadee and Kadee-like couplers are excepted because those knuckles are spring loaded in the closed position. They automatically open when pushed on by the knuckle of the other coupler.*

The force needed to couple should not exceed 8 oz. This recommendation assumes that springs, latches, and other mechanisms are lubricated and "broken in."

## Coupler Swing

Couplers should swing from side to side far enough to allow at least a half inch of lateral offset as defined in the following figure to negotiate moderate reverse curves.



## Binding/Tight Coupling

Couplers should not mate so tightly that they cause derailments or pull other cars over if one car topples.

## Mating Contours

New coupler designs should have contours that mate with the following sets of current couplers.

- Couplers intended for standard gauge models should have contours that mate with current AMS32 and Kadee 820 series couplers.
- Couplers intended for narrow gauge models should have contours that mate with each of the current couplers in the following set -- AMS20, AMS29, Aristo-Craft (truck mount), Aristo-Craft Kuppler (body mount), Bachmann Spectrum, Delton, Kadee 820 series, Kadee 830 series, Kadee 900 series, LGB, and MTH couplers.